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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/811,171	03/26/2004	Youngshik Yoon	PU030101	1989	
7590 04/18/2006			EXAMINER		
JOSEPH S. TRIPOLI, PATENT OPERATIONS			BLACKMAN, RO	BLACKMAN, ROCHELLE ANN J	
THOMSON LIC P.O. BOX 5312			ART UNIT	PAPER NUMBER	
PRINCETON, NJ 08543-5312			2851		
			DATE MAILED: 04/18/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/811,171	YOON, YOUNGSHIK			
Office Action Summary	Examiner	Art Unit			
	Rochelle Blackman	2851			
The MAILING DATE of this communication appeared for Reply	oears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 22 N	<u>larch 2006</u> .				
	s action is non-final.				
3) Since this application is in condition for allowa	nce except for formal matters, pro	secution as to the merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-4 and 6-9</u> is/are pending in the app	lication				
4a) Of the above claim(s) is/are withdra					
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1-4 and 6-9</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine					
10) ☐ The drawing(s) filed on 26 March 2004 is/are:	a)⊠ accepted or b)⊡ objected to	by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •				
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	d.			
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal P 6)  Other:	atent Application (PTO-152)			
U.S. Patent and Trademark Office					
PTOL-326 (Rev. 7-05) Office Ad	ction Summary Pa	rt of Paper No./Mail Date 20060411			

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#### **DETAILED ACTION**

### Response to Arguments

Applicant's arguments with respect to claims 1-4 and 6-9 have been considered but are most in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2, 4, 6, 7, and 9 are rejected under 35 U.S.C. 102(a) as being anticipated by Yamauchi et al. (U.S. Patent Application Publication No. 2002/0176255).

Regarding claims 1 and 6, Yamauchi discloses a projection display/ projection system having a projection display (for example, see FIGS. 15-17), comprising: an illumination source (see 25 of FIGS. 15 and 17) for producing light; a light-dividing prism (see 31 of FIG. 15(a), 16, and 17 and see paragraph [0145]) for receiving light from the illumination source and dividing the received light based on polarization control; and a plurality of integrators (see 9 and 10a, b of FIGS. 15-17), wherein the light received from the illumination source and divided by the light-dividing prism is provided to each of the plurality of integrators (see light rays projected towards 9 and 10a, b in FIGS. 15(a), 16, and 17).

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Regarding claims 2 and 7, Yamauchi discloses wherein each integrator is further coupled to one or more imaging devices (see 1 of FIG. 17).

Regarding claims 4 and 9, Yamauchi discloses wherein the light-dividing prism has one of a square shape and a rectangular shape (see shape of 31 in FIGS. 15 and 17).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamauchi et al. (U.S. Patent Application Publication No. 2002/0176255) in view of Peng et al. (U.S. Patent No. 6,843,591).

Yamauchi discloses the claimed invention except for the plurality of integrators being "fiber integrators".

Peng teaches providing a plurality of integrators that are fiber integrators (see 140, 142, 144, 146 of FIGS. 1-3 and 6 and see col. 4, lines 26-30).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the "projection display"/ "projection system" of the Yamauchi reference with a plurality of integrators that are "fiber integrators" as taught by

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Peng for the purpose of reducing the lost of light during light integration and provide relatively uniform brightness of light (see col. 3, lines 29-33).

Note: the following rejection is being provided with the following reference because the reference comprises a different type of integrator and uses a polarization member with the integrator.

2. Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamauchi et al. (U.S. Patent Application Publication No. 2002/0176255) in view of Suzuki et al. (U.S. Patent Application Publication No. 2002/0080485).

Yamauchi discloses the claimed invention except for the plurality of integrators being "fiber integrators".

Suzuki teaches providing a plurality of integrators that are fiber integrators (see 4, 4a of Figs. 2, 3, 5a-b, 6, and 7).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the "projection display"/ "projection system" of the Yamauchi reference with a plurality of integrators that are "fiber integrators" as taught by Suzuki for the purpose of reducing the lost of light during light integration and provide relatively uniform brightness of light.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gr B Perky

RB

William Perkey Primary Examiner